

# Results of contactless and non-invasive analysis: overview

**Project:** Digitization / Cataloguing of non-textual objects:  
Description and Digitization of Precious Book Covers as Independent Works of Art.  
Project-Period: 01.10.2014 - 30.09.2017

**Shelfmark:** Munich, Bayerische Staatsbibliothek, Cod.nepal. 81

**Analytical methods:** X-Ray Fluorescence Spectroscopy (XRF): p. 2-12  
Fourier Transform Infrared Spectroscopy (FTIR): p. 13-24

**Contact:** Institute of Conservation and Restoration (IBR)  
of the Bayerische Staatsbibliothek, Munich

# XRF-Analysis: Mapping of measurement points and spectra

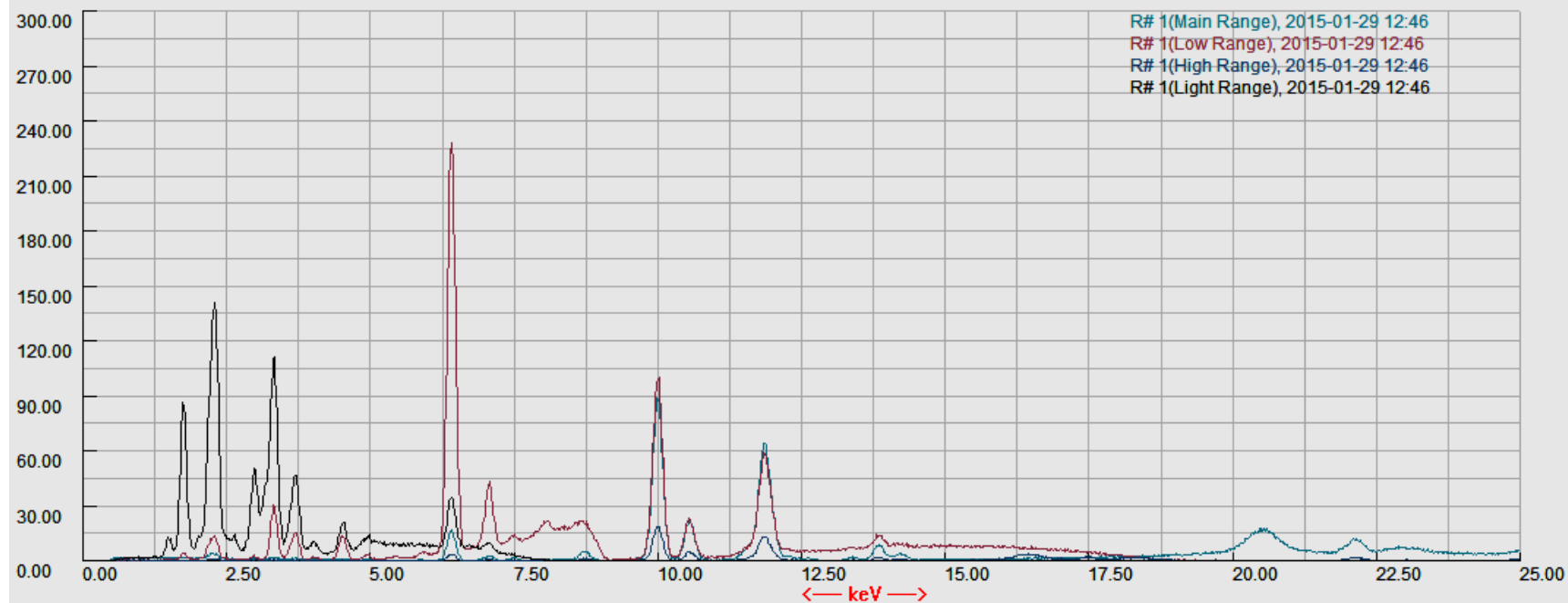
## Scanning parameters

Instrument: NITON XL3t GOLD D+  
Scanning mode: Mining (Cu, Zn)  
Spectral resolution:  $4 \text{ cm}^{-1}$   
Scan duration: 150 s

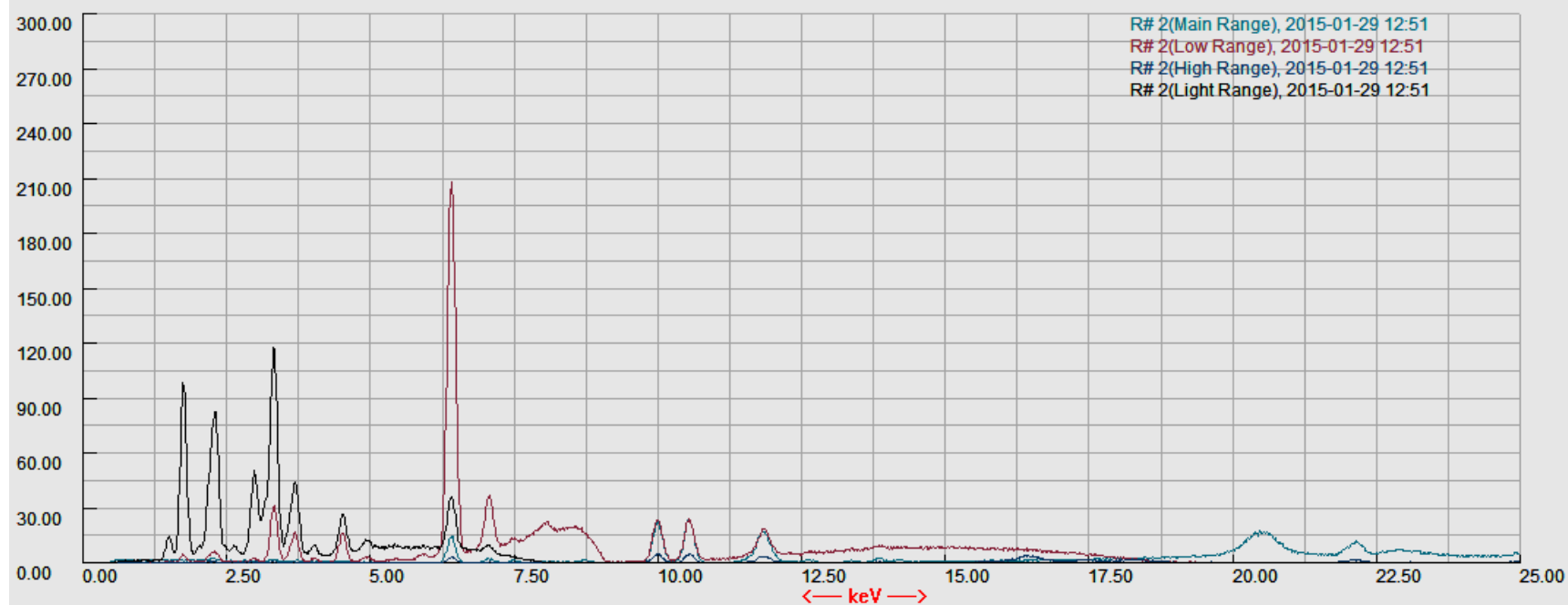
Spectra: #1 ... #20

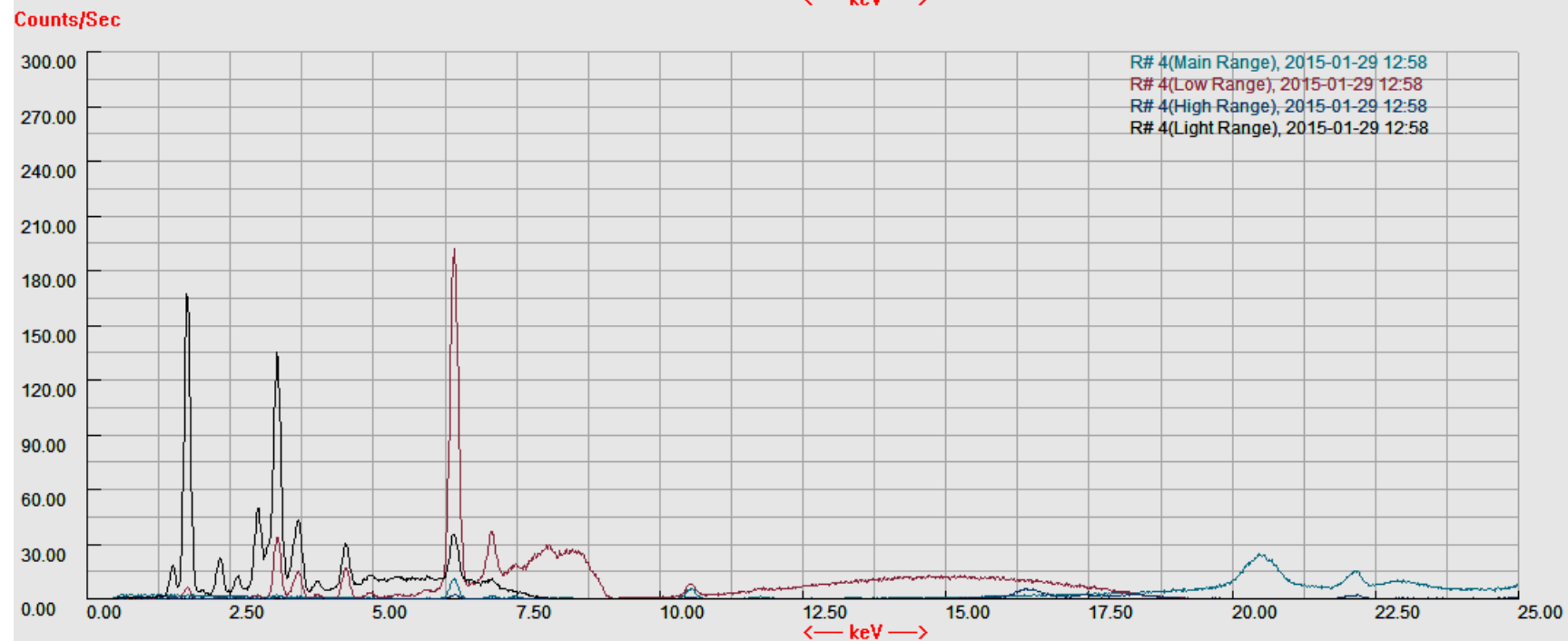
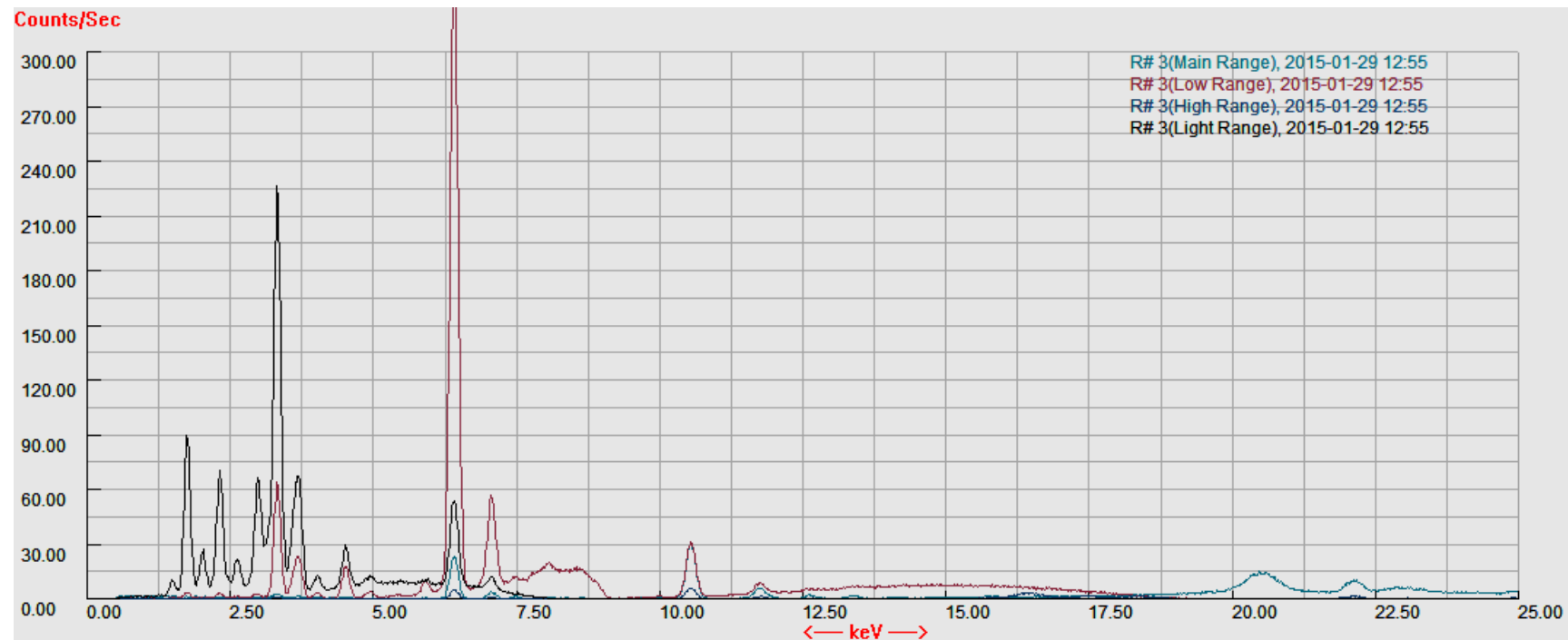


Counts/Sec

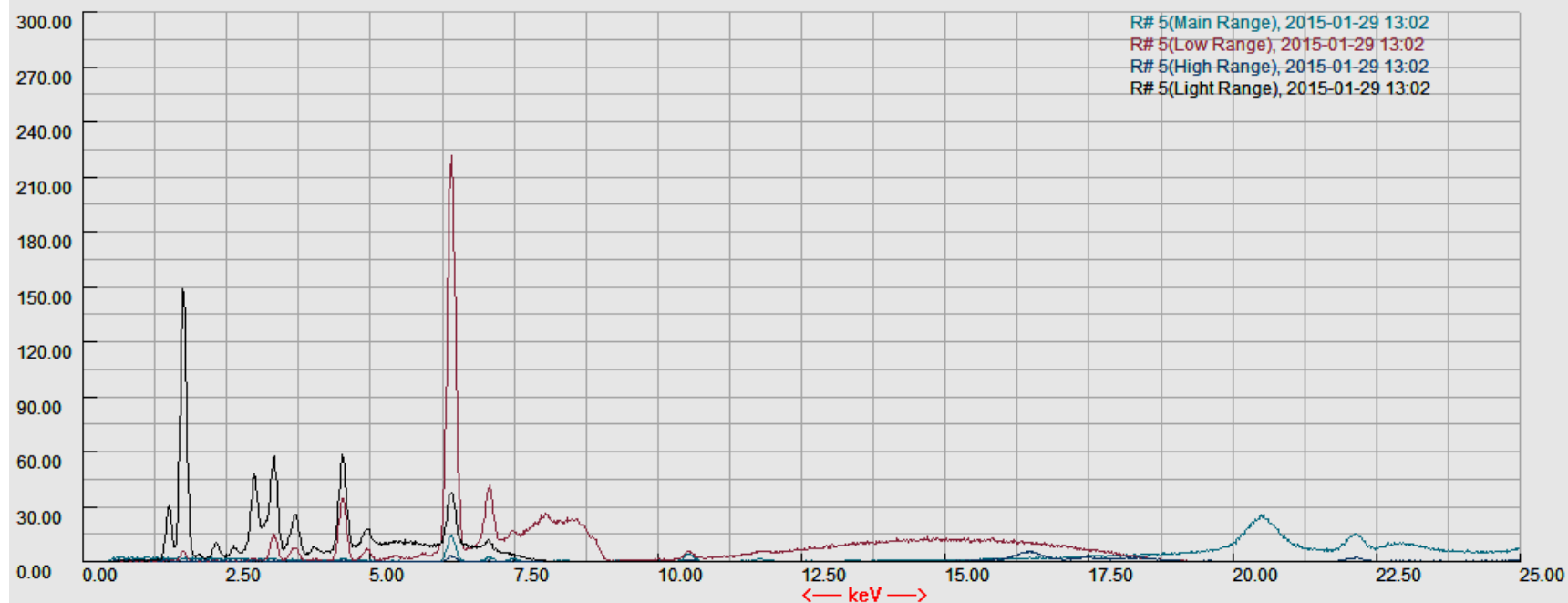


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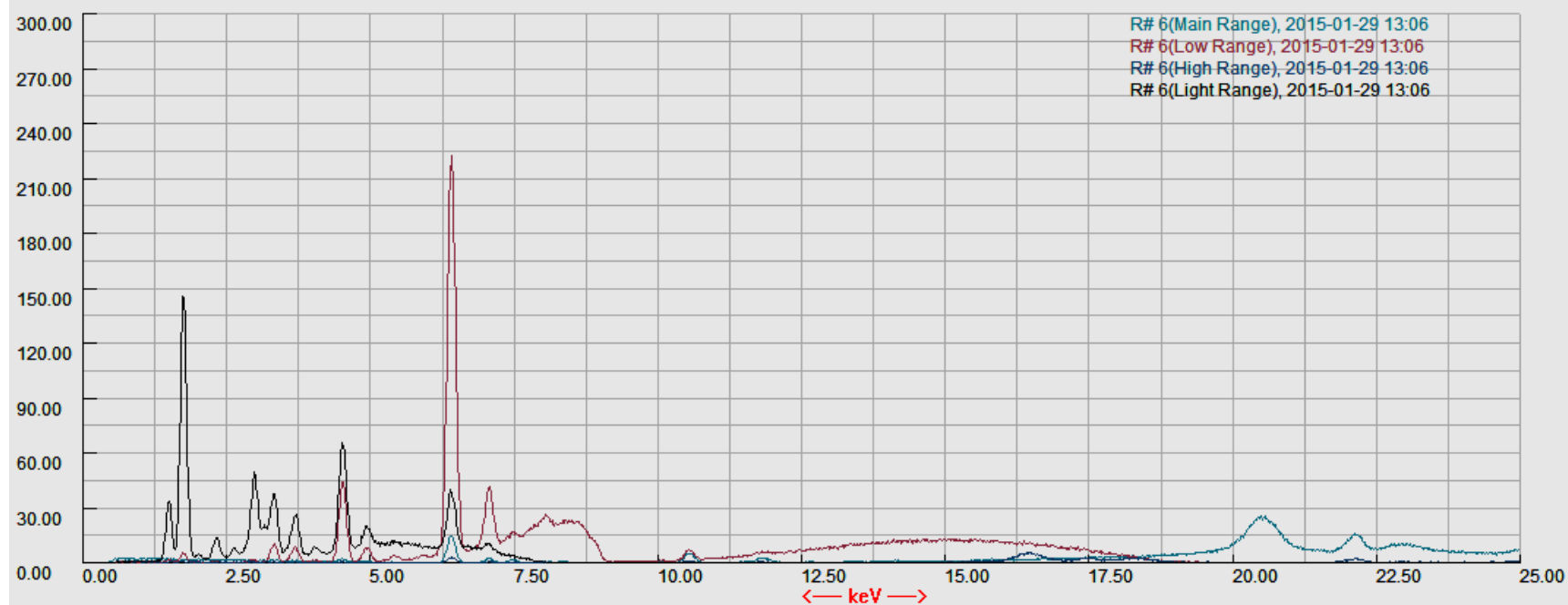


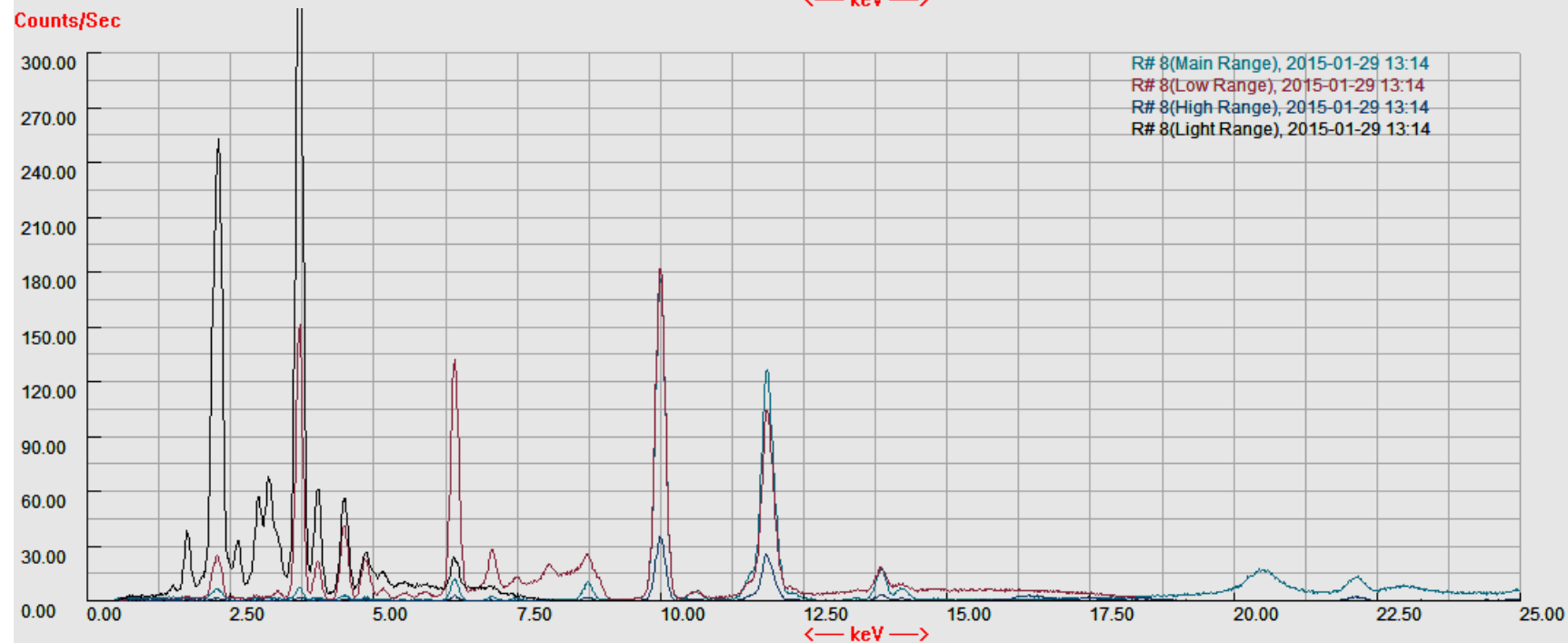
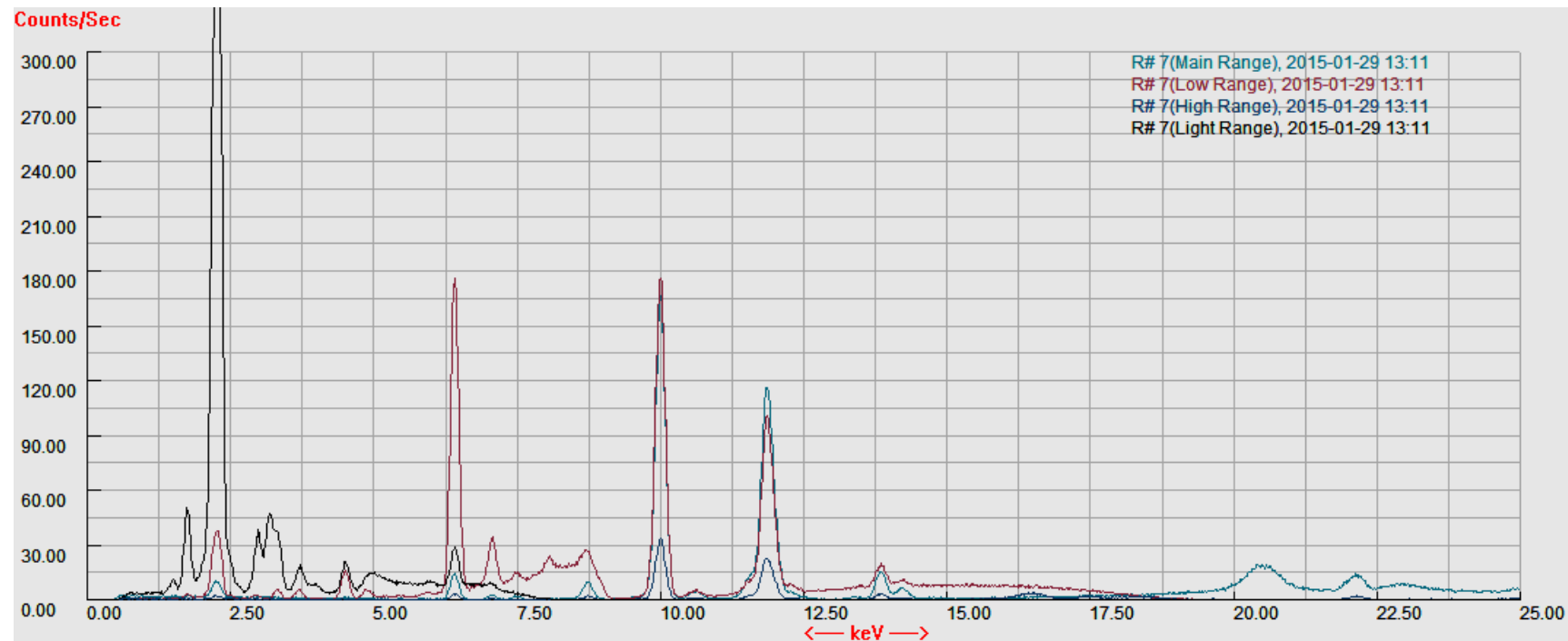


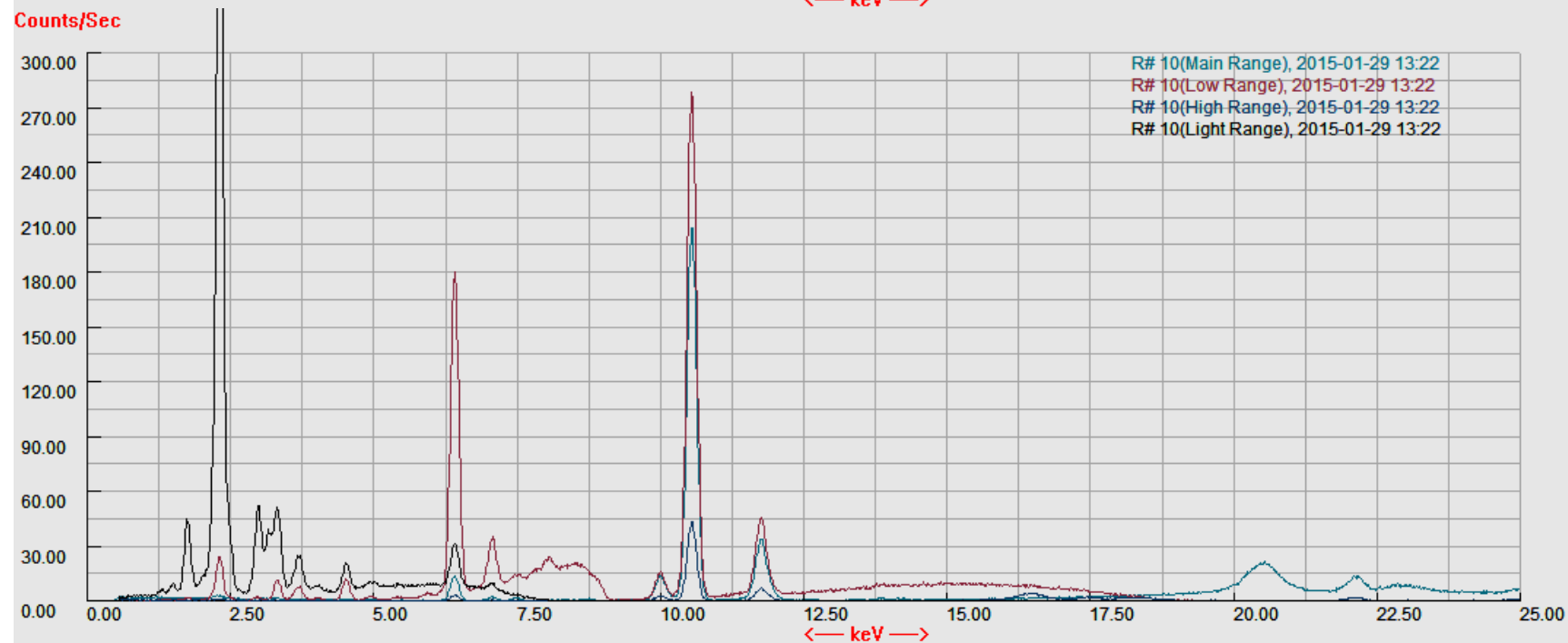
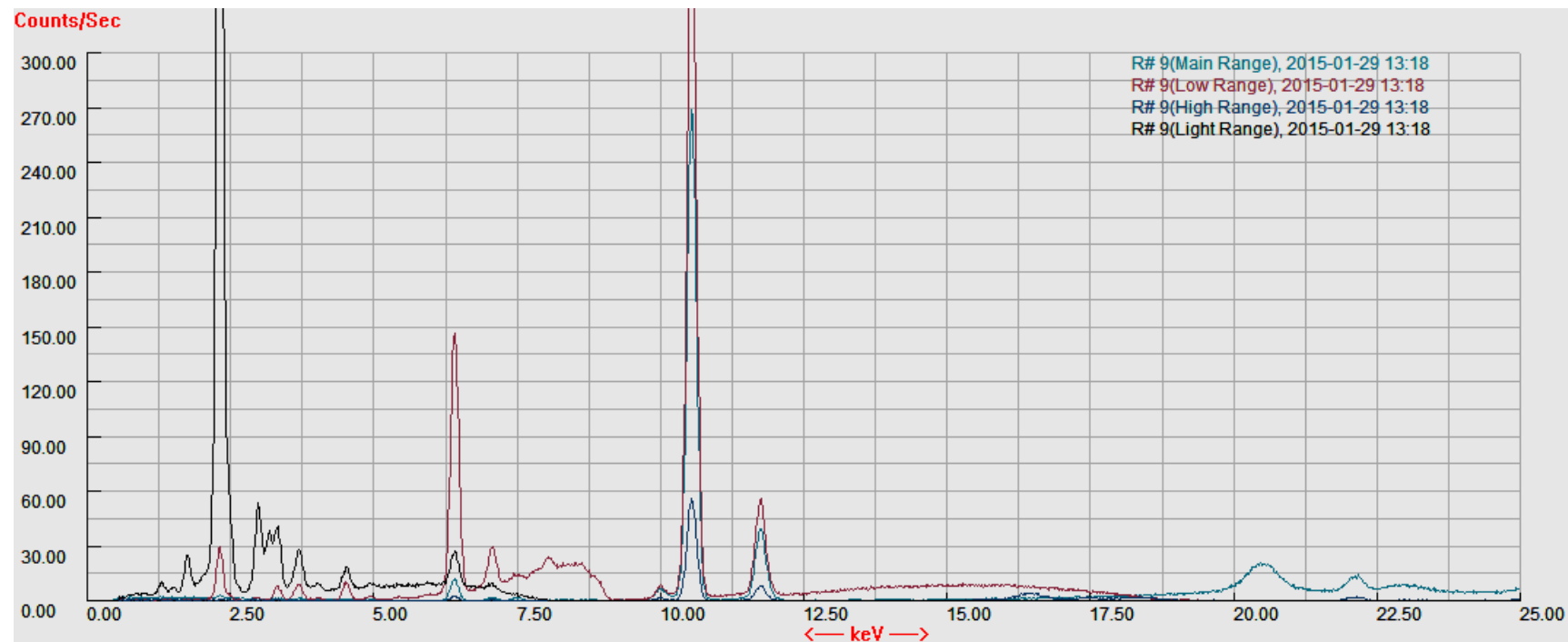
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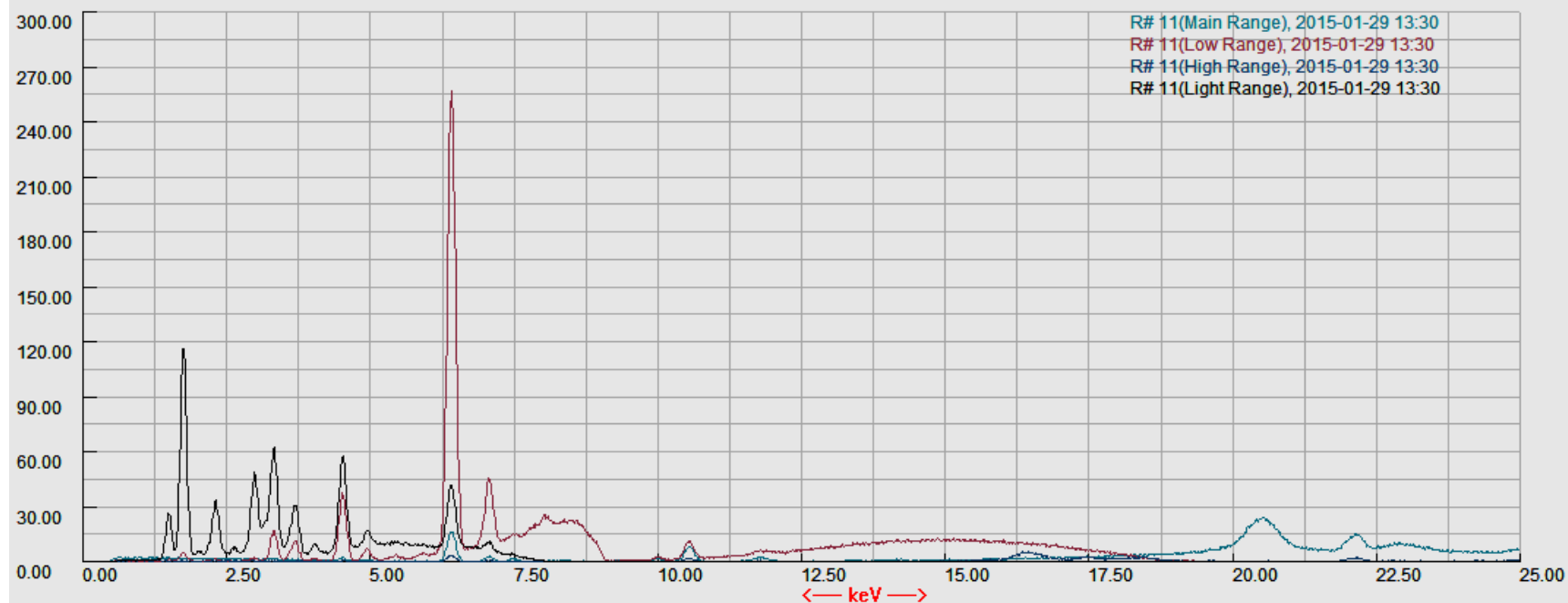
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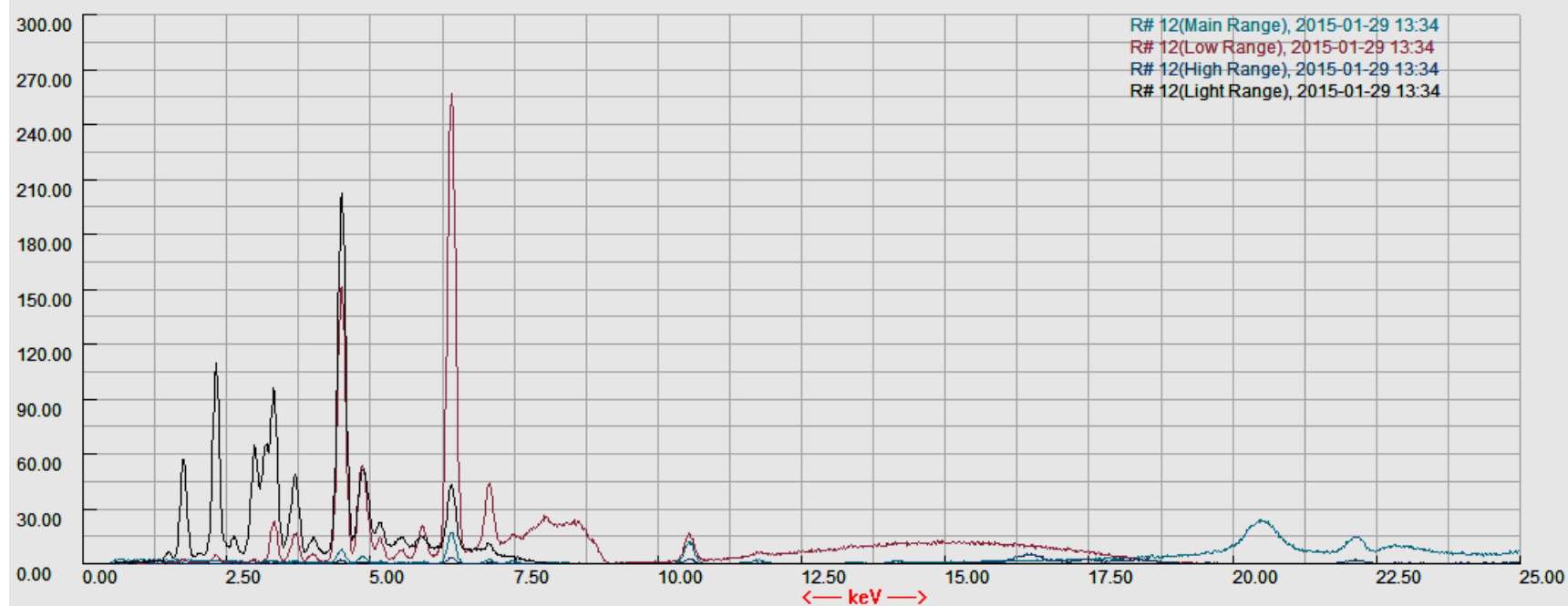




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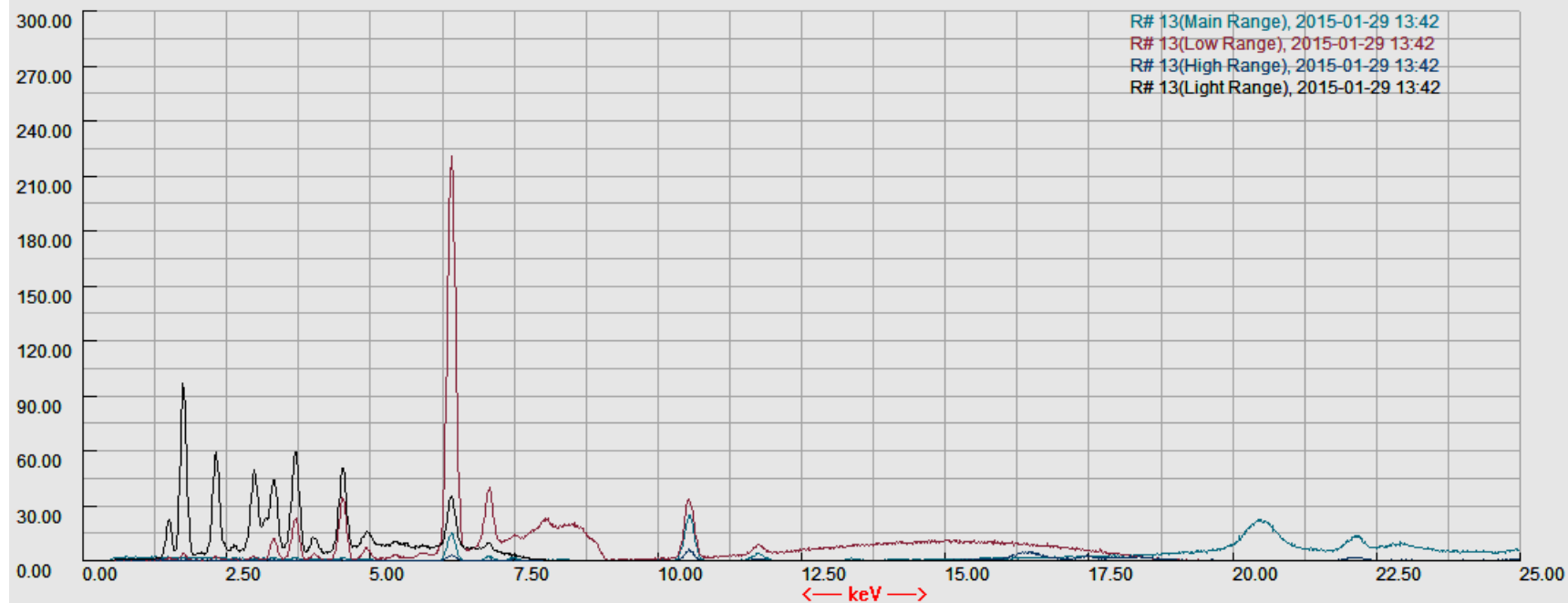


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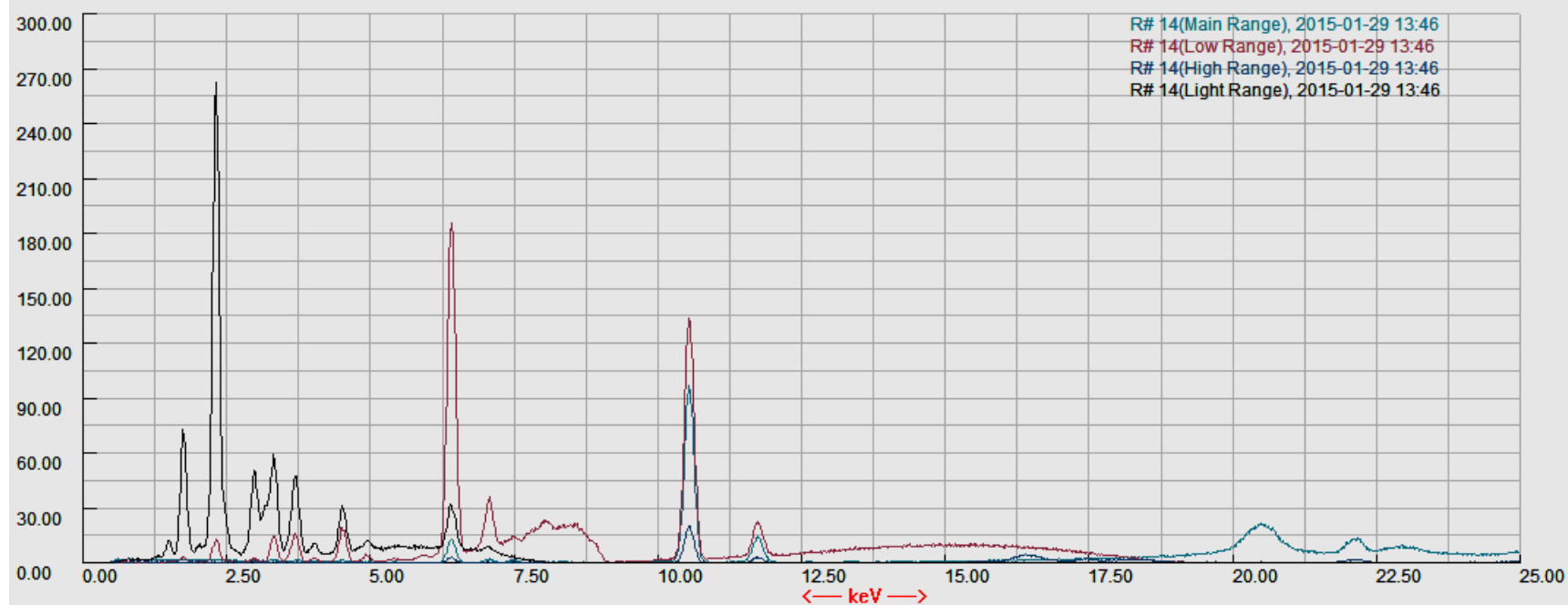




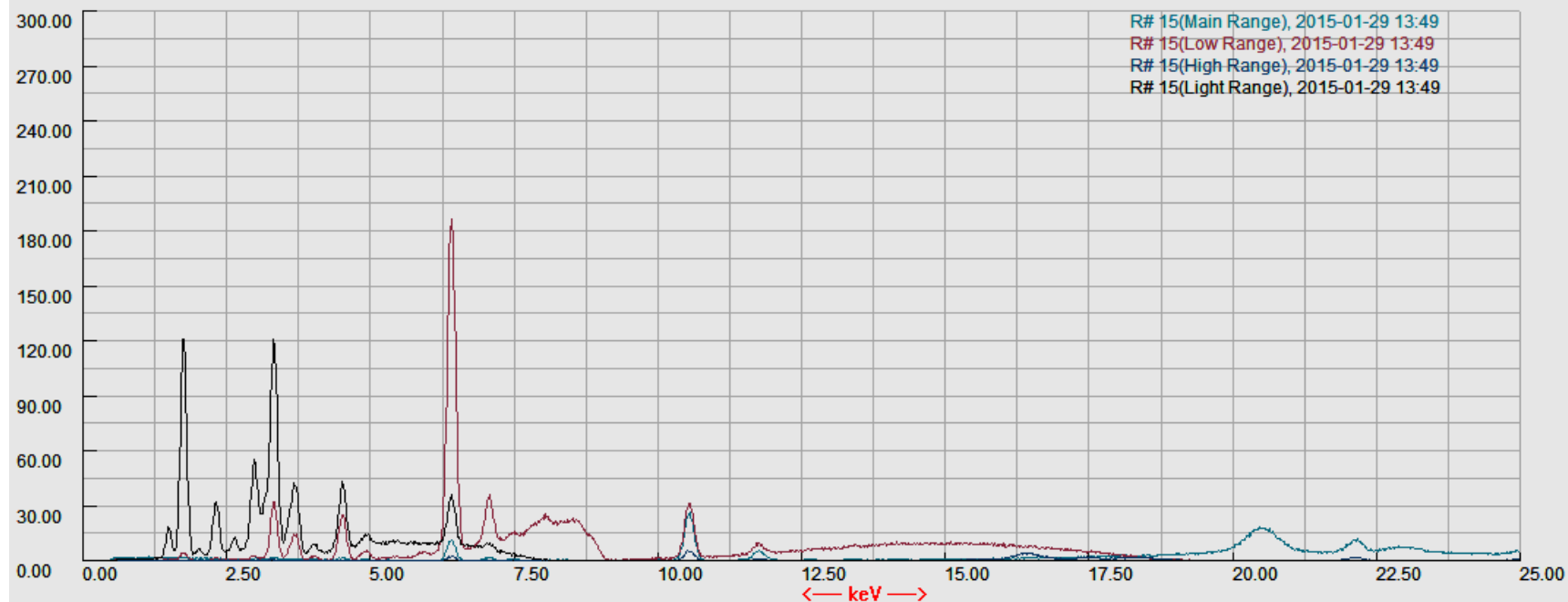
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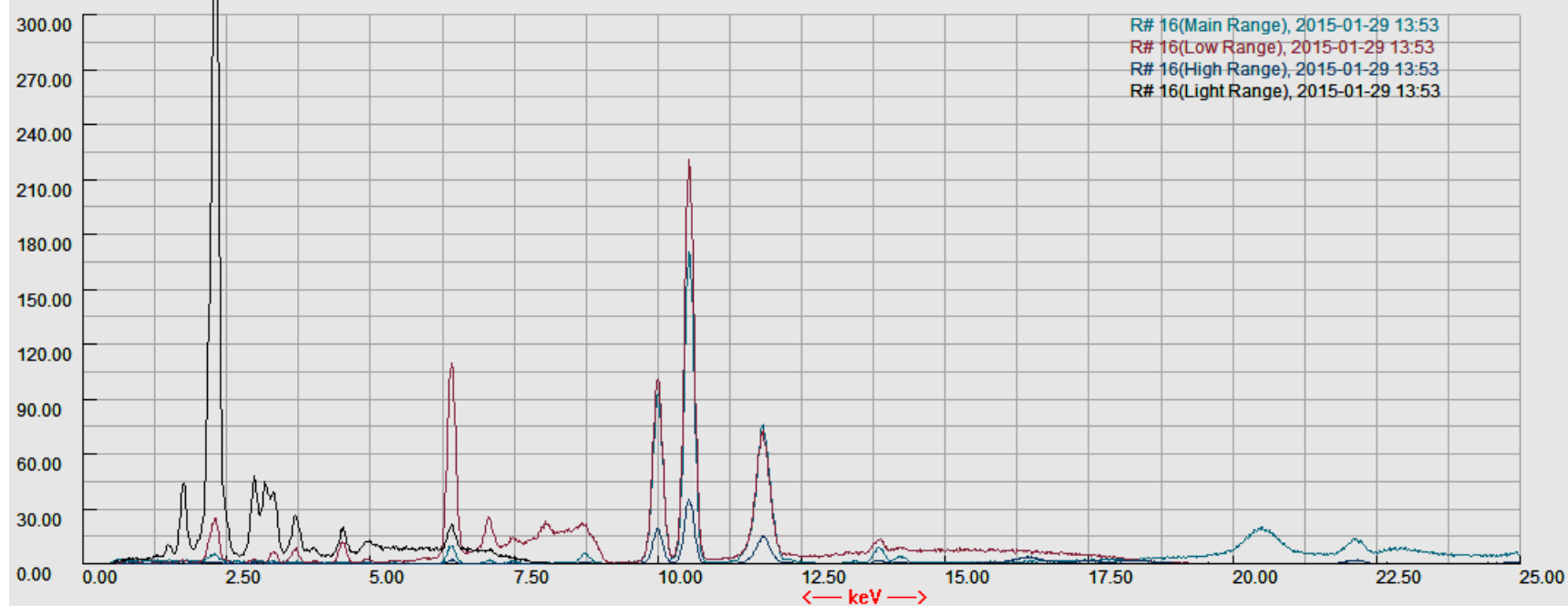
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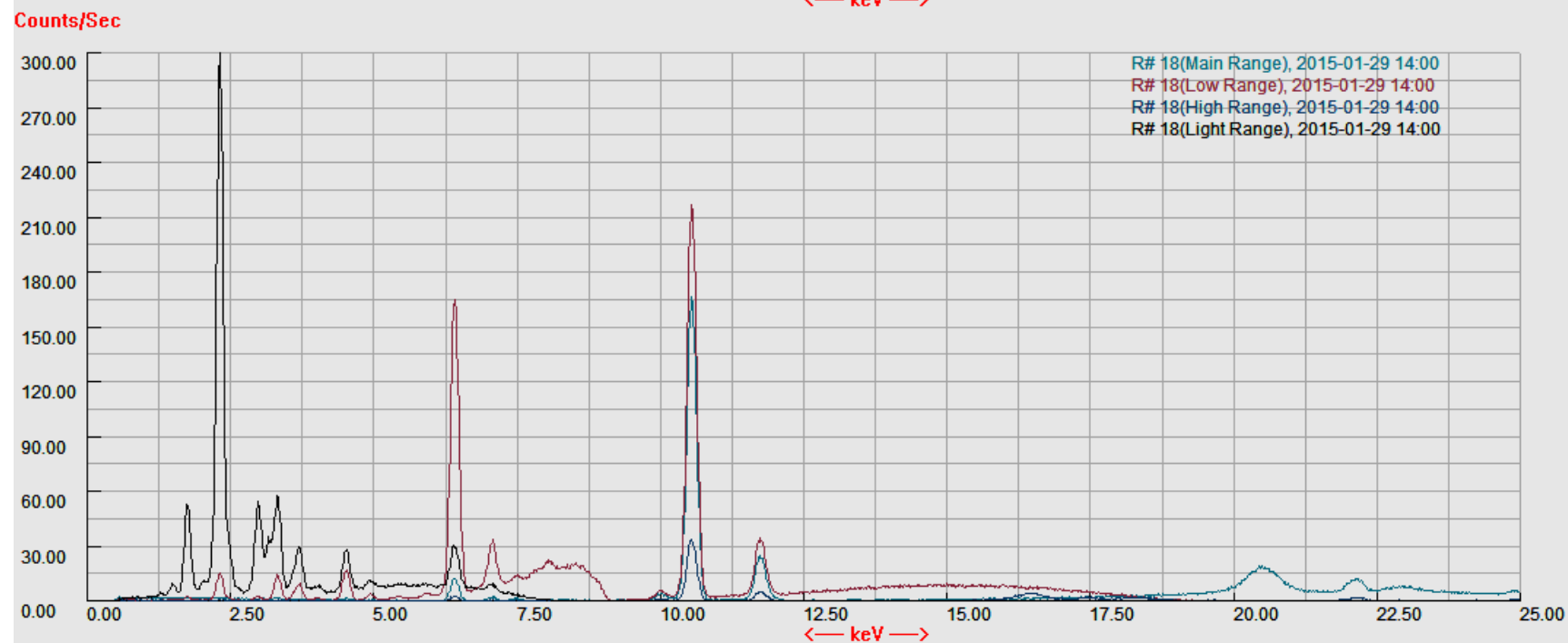
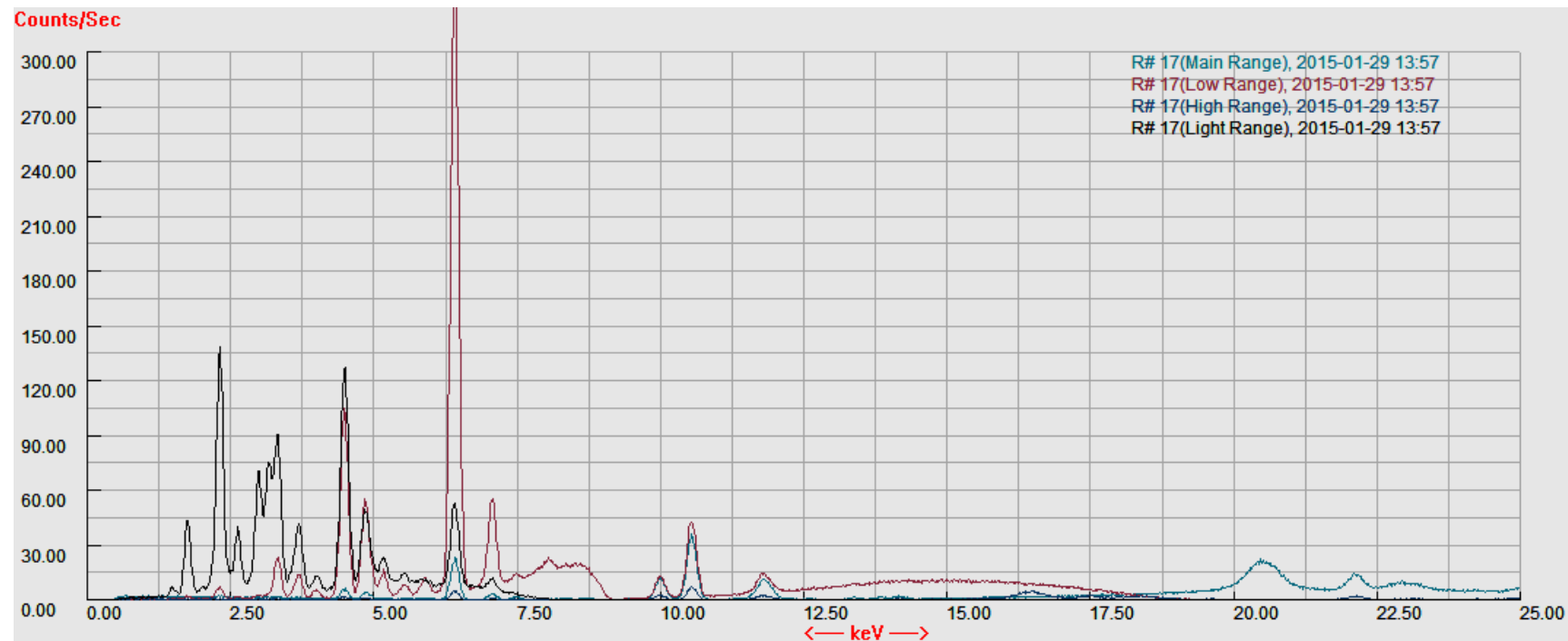


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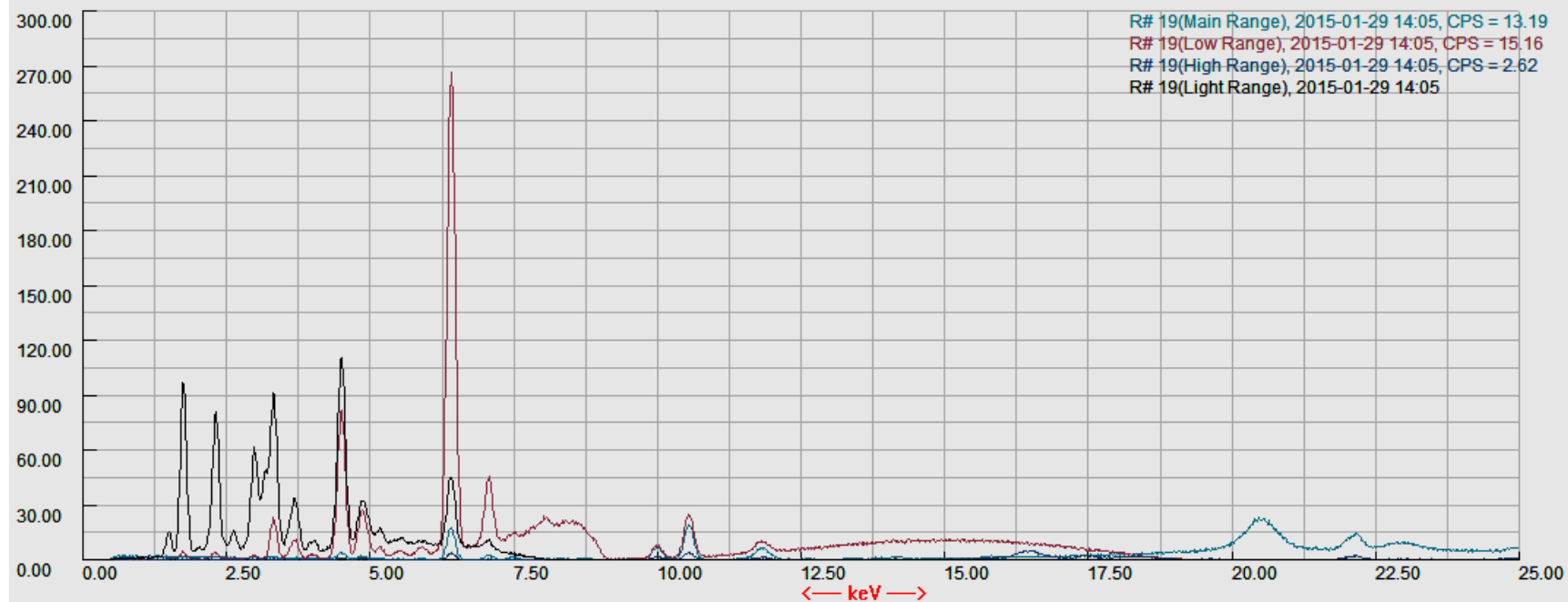


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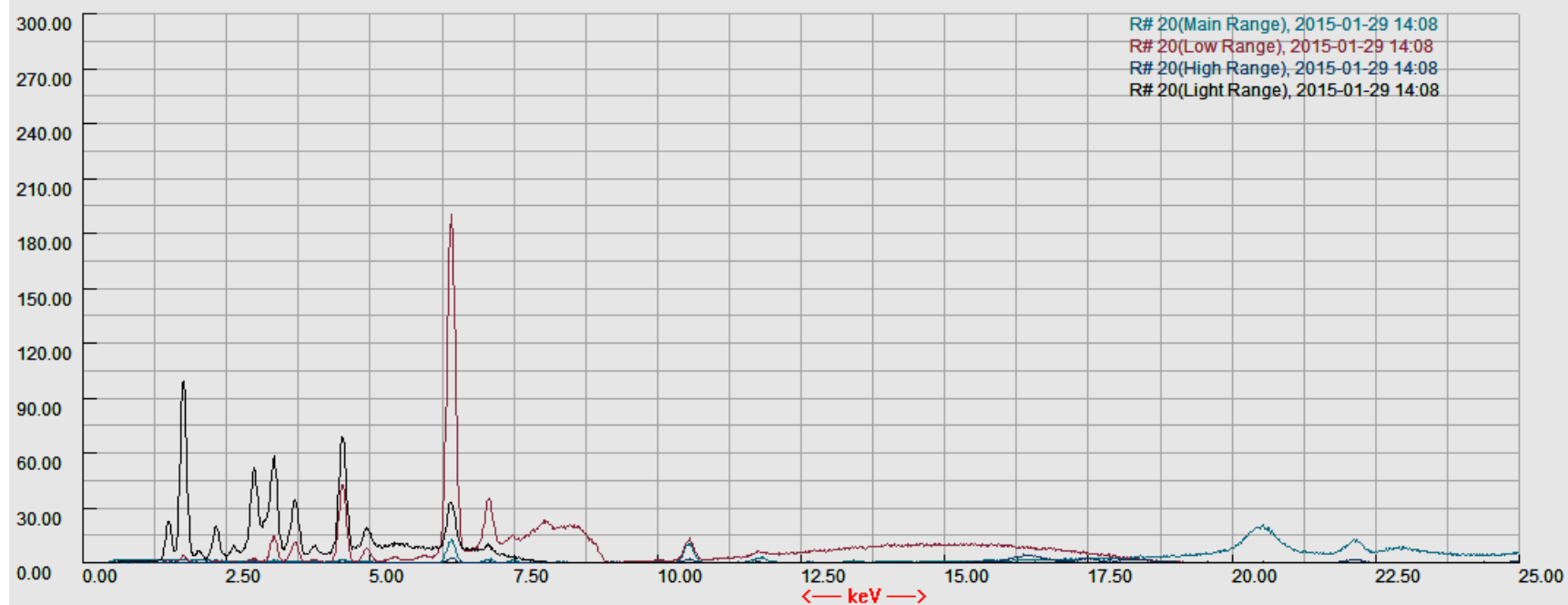




Counts/Sec



Counts/Sec



## FTIR-Analysis: Mapping of measurement points and spectra

### Scanning parameters

Instrument: BRUKER ALPHA  
Scanning mode: FTIR external reflection mode  
Spectral resolution:  $4\text{ cm}^{-1}$   
Spectral range:  $360\text{-}5400\text{ cm}^{-1}$   
Scan duration: 240 scans

Spectra: nepal\_81\_1a\_1a ... 1v  
(filename description: signature\_bookcover 1/2, side a/b\_number of scan)



